AI Planning Exercise Sheet 3

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Exercise 3.1

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Exercise 3.2

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(d=dancing, h=at-home, w=work, ro=romeo, ju=juliet) We start at: \gamma = ju-d \wedge ro-h We want to reach: I = \{ro-h \mapsto 1, ju-h \mapsto 1\} Operators: go-d, go-w, go-h regr_{go-w}(\gamma) = ro-h \wedge \\ ((EPC_{ju-d}(e_{go-w}) \vee (ju-d \wedge \neg EPC_{\neg ju-d}(e_{go-w}))) \wedge \\ (EPC_{ro-h}(e_{go-w}) \vee (ro-h \wedge \neg EPC_{\neg ro-h}(e_{go-w}))) \\) \wedge \kappa \\ regr_{go-w}(\gamma) = ro-h \wedge \\ ((\bot \vee (ju-d \wedge \top)) \wedge \\ (\bot \vee (ro-h \wedge \bot)) \\) \wedge \kappa \\ regr_{go-w}(\gamma) = \bot regr_{go-d}(\gamma) = ju-h \wedge
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